I claim:

1. (Currently amended) A two-way trap comprising:

an inlet pipe;

an outlet pipe;

a general trap section attached to and disposed between the inlet pipe and outlet pipe such that when filled with water to an equilibrium water level equal to the lowest point of the outlet pipe, air does not freely communicate between the inlet pipe and the outlet pipe; and

an auxiliary trap section attached to one of said inlet pipe and general trap section at a point (M) above the equilibrium water level at a first end and attached to the general trap section at a point (N) below the equilibrium water level at a second end, such that if the general trap section became blocked water would flow through the auxiliary trap section yet air would not freely communicate between the inlet pipe and the outlet pipe.

2. (Previously presented) The two-way trap of claim 1, wherein the trap comprises an alarm for indicating when the water is flowing through the auxiliary trap section because the general trap section is blocked.

3. (Previously presented) The two-way trap of claim 1, wherein the two-way trap further includes a manhole to provide access for repair.

4. (Previously presented) The two-way trap of claim 1, wherein the auxiliary trap is in vertical alignment with the general trap.

5. (Previously presented) The two-way trap of claim 1, wherein the auxiliary trap is offset to one side of the general trap.

6. (Currently amended) In an improved drainage system:

an inlet pipe, an outlet pipe and a general trap disposed between said inlet and outlet pipes, said general trap providing that when filled with water to an equilibrium water level equal to the lowest point of the outlet pipe, air does not freely communicate between the inlet pipe and the outlet pipe, the improvement comprising an auxiliary trap disposed between the inlet pipe and the outlet pipe and having an inlet end operatively attached to the inlet pipe at a point (M) and an outlet end operatively attached to the outlet pipe below the equilibrium water level, at a point (N) such that if the general trap became blocked, water would flow through the auxiliary trap yet air would not freely communicate between the inlet pipe and the outlet pipe.

7. (Previously presented) The improved drainage system of claim 6, wherein:

the auxiliary trap includes a manhole to provide access for repair.

8. (Previously presented) The two-way trap of claim 6, wherein the trap comprises an alarm for indicating when the water is flowing through the auxiliary trap section because the general trap section is blocked.

9. (Previously presented) The improved drainage system of claim 6, wherein:

the diameter of the auxiliary trap is smaller than the diameter of the general trap.

10. (Previously presented) The improved drainage system of claim 6, wherein:

the general trap and the auxiliary trap are formed from straight plastic pipe.

11. (New) Drain trap structure for installation in buildings, comprising:

an inlet section and an outlet section, the inlet section being disposed in a first predetermined level (M) above the overflow water level defined by the level of the outlet section, and further comprising a trap interconnecting said inlet and outlet sections and having a descending portion connected to the inlet section and an ascending portion connected to the outlet section, the improvement comprising a duct that is branched off the inlet section at or above said first predetermined level (M) and is connected to the ascending section of the trap at a location so that the uppermost edge portion of the entrance opening of said duct into the ascending portion is disposed in a predetermined level distance (N) below the overflow water level.